

WHAT IS CLAIMED IS:

- 1                   1.       A method for detecting hostile software in a computer system  
2 comprising:  
3                   storing a representation of configuration data associated with an  
4 operating system for the computer system obtained at a first time;  
5                   comparing the stored representation of the configuration data obtained at  
6 the first time with a representation of the configuration data associated with the  
7 operating system for the computer system obtained at a second time; and  
8                   if deviation is detected between the stored representation of the  
9 configuration data obtained at the first time and the representation of the configuration  
10 data obtained at the second time, automatically performing at least one remedial  
11 measure in response to the deviation detected.
- 1                   2.       The method of claim 1 wherein the configuration data relates to  
2 identification of executable code installed in the computer system.
- 1                   3.       The method of claim 1 wherein the configuration data relates to  
2 identification of a command line for invoking executable code associated with a  
3 particular file extension.
- 1                   4.       The method of claim 1 wherein the configuration data is obtained  
2 from a registry maintained by the operating system.
- 1                   5.       The method of claim 4 wherein the configuration data obtained  
2 from at least one key associated with the registry.
- 1                   6.       The method of claim 1 wherein the configuration data is obtained  
2 from a file stored in the computer system.
- 1                   7.       The method of claim 1 wherein the stored representation of  
2 configuration data is encoded prior to being stored.
- 1                   8.       The method of claim 1 wherein the configuration data is  
2 compared to a predefined value.

- 1                    9.     The method of claim 1 wherein the configuration data is checked  
2     for addition of data.
- 1                    10.    The method of claim 1 wherein the configuration data is checked  
2     for removal of data.
- 1                    11.    The method of claim 1 wherein the at least one remedial measure  
2     comprises determining a storage location associated with suspected executable code in  
3     the computer system.
- 1                    12.    The method of claim 1 wherein the at least one remedial measure  
2     comprises determining whether suspected executable code is currently executing.
- 1                    13.    The method of claim 12 wherein the at least one remedial  
2     measure further comprises terminating execution of the suspected executable code.
- 1                    14.    The method of claim 13, wherein the suspected executable code  
2     does not receive notification prior to being terminated.
- 1                    15.    The method of claim 1 wherein the at least one remedial measure  
2     comprises moving suspected executable code to a specified storage location for later  
3     evaluation.
- 1                    16.    The method of claim 1 wherein the at least one remedial measure  
2     comprises altering configuration data associated with the operating system to reflect the  
3     stored representation of the configuration data.
- 1                    17.    The method of claim 1 wherein the operating system is a  
2     Windows-based operating system.
- 1                    18.    The method of claim 1 wherein the operating system is a Linux-  
2     based operating system.
- 1                    19.    A computer system capable of detecting hostile software  
2     comprising:  
3                    a processing unit capable of being controlled by an operating system;

4                   a storage unit coupled to the processing unit, the storage unit capable of  
5 storing a representation of configuration data associated with the operating system  
6 obtained at a first time;  
7                   wherein the processing unit is capable of comparing the stored  
8 representation of the configuration data obtained at the first time with a representation  
9 of the configuration data associated with the operating system obtained at a second time  
10 and, if deviation is detected between the stored representation of the configuration data  
11 obtained at the first time and the representation of the configuration data obtained at the  
12 second time, automatically performing at least one remedial measure in response to the  
13 deviation detected.

1                   20.     A system for detecting hostile software in a computer system  
2 comprising:  
3                   means for storing a representation of configuration data associated with  
4 an operating system for the computer system obtained at a first time;  
5                   means for comparing the stored representation of the configuration data  
6 obtained at the first time with a representation of the configuration data associated with  
7 the operating system for the computer system obtained at a second time; and  
8                   means for automatically performing at least one remedial measure in  
9 response to the deviation detected, if deviation is detected between the stored  
10 representation of the configuration data obtained at the first time and the representation  
11 of the configuration data obtained at the second time.

1                   21.     An article of manufacture comprising:  
2                   a computer usable medium having computer readable program code  
3 means embodied therein for causing hostile software to be detected in a computer  
4 system, the computer readable program code means in said article of manufacture  
5 comprising:  
6                   computer readable program code means for causing a computer to store  
7 a representation of configuration data associated with an operating system for the  
8 computer system obtained at a first time;  
9                   computer readable program code means for causing the computer to  
10 compare the stored representation of the configuration data obtained at the first time

11 with a representation of the configuration data associated with the operating system for  
12 the computer system obtained at a second time; and  
13 computer readable program code means for causing the computer to  
14 automatically perform at least one remedial measure in response to the deviation  
15 detected, if deviation is detected between the stored representation of the configuration  
16 data obtained at the first time and the representation of the configuration data obtained  
17 at the second time.